IMPORTANT!

If your product is not working properly. . .

① **Reconnect AC adaptor to the base unit.**
② **Check if telephone line cord is connected.**
③ **Use rechargeable Ni-MH batteries.**
(Alkaline/Manganese/Ni-Cd batteries CANNOT be used.)
④ Read **troubleshooting** page in the **Operating Instructions**.

Visit our Web site: www.panasonic.com/support
- **FAQ and troubleshooting hints are available.**

For your future reference
We recommend keeping a record of the following information to assist with any repair under warranty.

Serial No.	Date of purchase
(found on the bottom of the base unit)	
Name and address of dealer	

Attach your purchase receipt here.

Panasonic Corporation of North America
Two Riverfront Plaza, Newark, NJ 07102-5490

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'n China

PNQX6482XA

PNQX6482XA PC1213MU2084 (E)

Panasonic

Operating Instructions

Digital Cordless Phone

Model No. **KX-TGC210**
KX-TGC212
KX-TGC213

Digital Cordless Answering System

Model No. **KX-TGC220**
KX-TGC222

- Model shown is KX-TGC210.

Before initial use, see "Getting Started" on page 9.

Thank you for purchasing a Panasonic product.
Please read these operating instructions before using the unit and save them for future reference.

Consulte "Guía Rápida Española", página 45.

For assistance, visit our Web site: **www.panasonic.com/support** for customers in the U.S.A. or Puerto Rico.

Please register your product: www.panasonic.com/prodreg

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Model composition

■ KX-TGC210 series

• Model shown is KX-TGC212.

■ KX-TGC220 series

• Model shown is KX-TGC222.

Series	Model No.	Base unit	Handset	
		Part No.	Part No.	Quantity
KX-TGC210 series	KX-TGC210	KX-TGC210	KX-TGCA20	1
	KX-TGC212	KX-TGC210	KX-TGCA20	2
	KX-TGC213	KX-TGC210	KX-TGCA20	3
KX-TGC220 series	KX-TGC220	KX-TGC220	KX-TGCA20	1
	KX-TGC222	KX-TGC220	KX-TGCA20	2

Accessory information

Supplied accessories

No.	Accessory item/Order number	Quantity		
		KX-TGC210 KX-TGC220	KX-TGC212 KX-TGC222	KX-TGC213
①	AC adaptor/PNLV226Z	1	1	1
②	Telephone line cord PQJA10075Y (Black) or PQJA10075Z (Transparence)	1	1	1
③	Rechargeable batteries/HHR-4DPA	2	4	6
④	Handset cover*1/PNYNTGCA20SR	1	2	3
⑤	Charger*2	–	1	2

*1 The handset cover comes attached to the handset.
*2 PNLC1055ZS (Silver), PNLC1055ZW (White)

① ② ③ ④ ⑤

Additional/replacement accessories

Please contact your nearest Panasonic dealer for sales information (page 49).

Accessory item	Order number
Rechargeable batteries	HHR-4DPA*1 • To order, please visit www.panasonic.com/batterystore
	Battery type: – Nickel metal hydride (Ni-MH) – 2 x AAA (R03) size for each handset
T-adaptor	KX-J66
Range extender	KX-TGA405*2

*1 Replacement batteries may have a different capacity from that of the supplied batteries.
*2 By installing this unit, you can extend the range of your phone system to include areas where reception was previously not available. This product can be purchased online. Please visit our Web site: www.panasonic.com/RangeExtender

Other information

- Design and specifications are subject to change without notice.
- The illustrations in these instructions may vary slightly from the actual product.

Expanding your phone system

Handset (optional): KX-TGDA20

You can expand your phone system by registering optional handsets (6 max.) to a single base unit.
- Optional handset is a different design from that of the supplied handsets.
- You cannot purchase the supplied handset (KX-TGCA20) separately.

For your safety

To prevent severe injury and loss of life/ property, read this section carefully before using the product to ensure proper and safe operation of your product.

⚠WARNING

Power connection

- Use only the power source marked on the product.
- Do not overload power outlets and extension cords. This can result in the risk of fire or electric shock.
- Completely insert the AC adaptor/power plug into the power outlet. Failure to do so may cause electric shock and/or excessive heat resulting in a fire.
- Regularly remove any dust, etc. from the AC adaptor/power plug by pulling it from the power outlet, then wiping with a dry cloth. Accumulated dust may cause an insulation defect from moisture, etc. resulting in a fire.
- Unplug the product from power outlets if it emits smoke, an abnormal smell, or makes an unusual noise. These conditions can cause fire or electric shock. Confirm that smoke has stopped emitting and contact us at www.panasonic.com/contactinfo
- Unplug from power outlets and never touch the inside of the product if its casing has been broken open.
- Never touch the plug with wet hands. Danger of electric shock exists.

Installation

- To prevent the risk of fire or electrical shock, do not expose the product to rain or any type of moisture.
- Do not place or use this product near automatically controlled devices such as automatic doors and fire alarms. Radio waves emitted from this product may cause such devices to malfunction resulting in an accident.
- Do not allow the AC adaptor or telephone line cord to be excessively pulled, bent or placed under heavy objects.

Operating safeguards

- Unplug the product from power outlets before cleaning. Do not use liquid or aerosol cleaners.
- Do not disassemble the product.
- Do not spill liquids (detergents, cleansers, etc.) onto the telephone line cord plug, or allow it to become wet at all. This may cause a fire. If the telephone line cord plug becomes wet, immediately pull it from the telephone wall jack, and do not use.

Medical

- Consult the manufacturer of any personal medical devices, such as pacemakers or hearing aids, to determine if they are adequately shielded from external RF (radio frequency) energy. (The product operates in the frequency range of 1.92 GHz to 1.93 GHz, and the RF transmission power is 115 mW (max.).)
- Do not use the product in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

⚠CAUTION

Installation and location

- Never install telephone wiring during an electrical storm.
- Never install telephone line jacks in wet locations unless the jack is specifically designed for wet locations.
- Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone lines.
- The AC adaptor is used as the main disconnect device. Ensure that the AC outlet is installed near the product and is easily accessible.

- This product is unable to make calls when:
  - the handset batteries need recharging or have failed.
  - there is a power failure.

Battery

- We recommend using the batteries noted on page 4. **USE ONLY rechargeable Ni-MH batteries AAA (R03) size.**
- Do not mix old and new batteries.
- Do not open or mutilate the batteries. Released electrolyte from the batteries is corrosive and may cause burns or injury to the eyes or skin. The electrolyte is toxic and may be harmful if swallowed.
- Exercise care when handling the batteries. Do not allow conductive materials such as rings, bracelets, or keys to touch the batteries, otherwise a short circuit may cause the batteries and/or the conductive material to overheat and cause burns.
- Charge the batteries provided with or identified for use with this product only, in accordance with the instructions and limitations specified in this manual.
- Only use a compatible base unit (or charger) to charge the batteries. Do not tamper with the base unit (or charger). Failure to follow these instructions may cause the batteries to swell or explode.

Attention:

A nickel metal hydride battery that is recyclable powers the product you have purchased.
Please call 1-800-8-BATTERY (1-800-822-8837) for information on how to recycle this battery.

Important safety instructions

When using your product, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

1. Do not use this product near water for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement or near a swimming pool.
2. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
3. Do not use the telephone to report a gas leak in the vicinity of the leak.
4. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.

SAVE THESE INSTRUCTIONS

For best performance

Base unit location/avoiding noise

The base unit and other compatible Panasonic units use radio waves to communicate with each other.

- For maximum coverage and noise-free communications, place your base unit:
  - at a convenient, high, and central location with no obstructions between the handset and base unit in an indoor environment.
  - away from electronic appliances such as TVs, radios, personal computers, wireless devices, or other phones.
  - facing away from radio frequency transmitters, such as external antennas of mobile phone cell stations. (Avoid putting the base unit on a bay window or near a window.)
- Coverage and voice quality depends on the local environmental conditions.
- If the reception for a base unit location is not satisfactory, move the base unit to another location for better reception.

Environment

- Keep the product away from electrical noise generating devices, such as fluorescent lamps and motors.
- The product should be kept free from excessive smoke, dust, high temperature, and vibration.
- The product should not be exposed to direct sunlight.
- Do not place heavy objects on top of the product.
- When you leave the product unused for a long period of time, unplug the product from the power outlet.
- The product should be kept away from heat sources such as heaters, kitchen stoves, etc. It should not be placed in rooms where the temperature is less than 0 °C (32 °F) or greater than 40 °C (104 °F). Damp basements should also be avoided.
- The maximum calling distance may be shortened when the product is used in the following places: Near obstacles such as hills, tunnels, underground, near metal objects such as wire fences, etc.
- Operating the product near electrical appliances may cause interference. Move away from the electrical appliances.

Routine care

- **Wipe the outer surface of the product with a soft moist cloth.**
- Do not use benzine, thinner, or any abrasive powder.

Other information

CAUTION: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

Notice for product disposal, transfer, or return

- This product can store your private/confidential information. To protect your privacy/confidentiality, we recommend that you erase information such as phonebook or caller list entries from the memory before you dispose of, transfer, or return the product.

Notice

- This product is designed for use in the United States of America. Sale or use of this product in other countries may violate local laws.
- Cet appareil est conçu pour être utilisé aux États-Unis d'Amérique. La vente ou l'emploi de cet appareil dans certains autres pays peut constituer une infraction à la législation locale.
- Este producto está diseñado para usarse en los Estados Unidos de América. La venta o el empleo de este producto en ciertos países puede constituir violación de la legislación local.
- 本產品專為美國使用而設。若在其他國家銷售或使用，可能會違反當地法例。
- この製品は、日本国外での使用を目的として設計されており、日本国内での使用は法律違反となります。従って、当社では日本国内においては 原則として修理などのサービスは致しかねます。

ENERGY STAR

As an ENERGY STAR® Partner, Panasonic has determined that this product meets the ENERGY STAR guidelines for energy efficiency. ENERGY STAR is a U.S. registered mark.

Specifications

- **Standard:**
  DECT 6.0 (Digital Enhanced Cordless Telecommunications 6.0)
- **Frequency range:**
  1.92 GHz to 1.93 GHz
- **RF transmission power:**
  115 mW (max.)
- **Power source:**
  120 V AC, 60 Hz
- **Power consumption:**
  Base unit*1:
  Standby: Approx. 0.6 W
  Maximum: Approx. 3.2 W
  Base unit*2:
  Standby: Approx. 0.7 W
  Maximum: Approx. 3.5 W
  Charger:
  Standby: Approx. 0.1 W
  Maximum: Approx. 1.8 W
- **Operating conditions:**
  0 °C – 40 °C (32 °F – 104 °F), 20 % – 80 % relative air humidity (dry)

*1 KX-TGC210 series: page 3
*2 KX-TGC220 series: page 3

Setting up

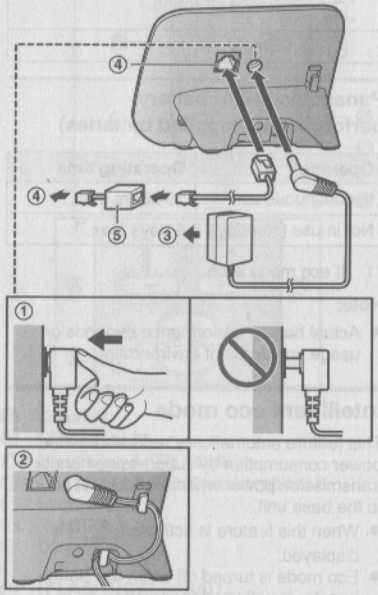
Connections

■ **Base unit**

① Connect the AC adaptor to the unit by pressing the plug firmly.
② Fasten the cord by hooking it.
③ Connect the AC adaptor to the power outlet.
④ Connect the telephone line cord to the unit, then to the single-line telephone jack (RJ11C) until you hear a click.
⑤ A DSL/ADSL filter (not supplied) is required if you have a DSL/ADSL service.

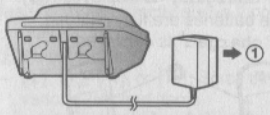
Note:

- Use only the supplied Panasonic AC adaptor PNLV226.



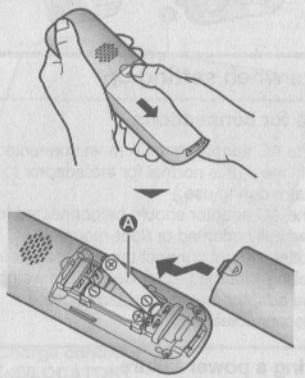
■ **Charger**

① Connect the AC adaptor to the power outlet.



Battery installation

- USE ONLY rechargeable Ni-MH batteries AAA (R03) size (Ⓐ).
- Do NOT use Alkaline/Manganese/Ni-Cd batteries.
- Confirm correct polarities (⊕, ⊖).

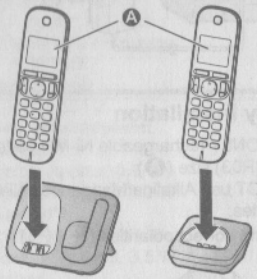


- Follow the directions on the display to set up the unit.

Battery charging

Charge for about 7 hours.

- Confirm "Charging" is displayed (Ⓐ).
- When the batteries are fully charged, "Fully charged" is displayed.



Note when setting up

Note for connections

- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- The AC adaptor should be connected to a vertically oriented or floor-mounted AC outlet. Do not connect the AC adaptor to a ceiling-mounted AC outlet, as the weight of the adaptor may cause it to become disconnected.

During a power failure

The unit will not work during a power failure. We recommend connecting a corded-type telephone (without AC adaptor) to the same telephone line or to the same telephone line jack using a Panasonic T-adaptor (page 4).

Note for battery installation

- Use the supplied rechargeable batteries. For replacement, we recommend using the Panasonic rechargeable batteries noted on page 4, 6.

Note for battery charging

- It is normal for the handset to feel warm during charging.
- Clean the charge contacts of the handset, base unit, and charger with a soft and dry cloth once a month. Before cleaning the unit, disconnect from power outlets and any telephone line cords. Clean more often if the unit is exposed to grease, dust, or high humidity.

Battery level

Icon	Battery level
	High
	Medium
	Low
	Needs charging.
	Empty

Panasonic Ni-MH battery performance (supplied batteries)

Operation	Operating time
In continuous use	10 hours max.*1
Not in use (standby)	6 days max.*1

*1 If eco mode is on.

Note:

- Actual battery performance depends on usage and ambient environment.

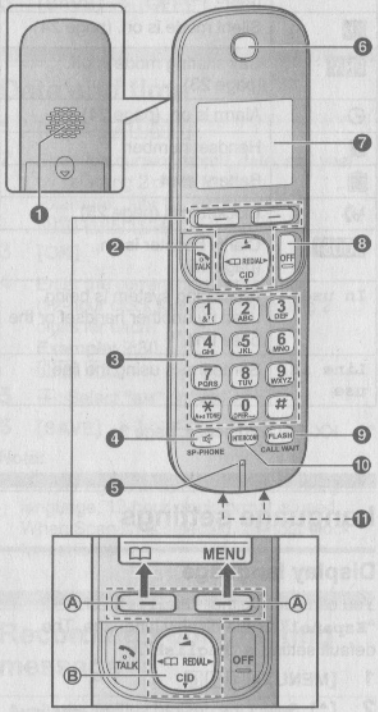
Intelligent eco mode

This feature automatically reduces handset power consumption by suppressing handset transmission power when the handset is close to the base unit.

- When this feature is activated, ECO is displayed.
- Eco mode is turned off when the clarity booster is activated (page 15).

Controls

Handset



❶ Speaker
❷ [ ] (TALK)
❸ Dial keypad ([*]: TONE)
❹ [ ] (SP-PHONE: Speakerphone)
❺ Microphone
❻ Receiver
❼ Display
❽ [OFF]
❾ [FLASH][CALL WAIT]
❿ [INTERCOM]
⓫ Charge contacts

■ **Control type**

Ⓐ **Soft keys**

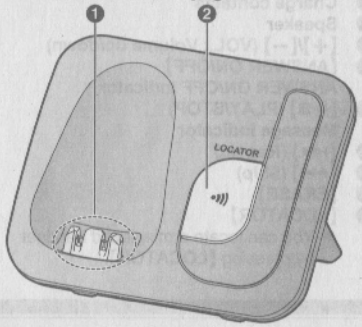
The handset features 2 soft keys. By pressing a soft key, you can select the feature shown directly above it on the display.

Ⓑ **Navigator key**

- [▲], [▼], [◄], or [►]: Scroll through various lists and items.
- ▬ (Volume: [▲] or [▼]): Adjust the receiver or speaker volume while talking.
- [◄] 📖: View the phonebook entry.
- [►] REDIAL: View the redial list.
- [▼] CID (Caller ID): View the caller list.

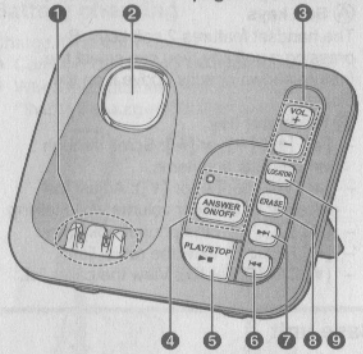
Base unit

■ **KX-TGC210 series: page 3**



❶ Charge contacts
❷ [•))/LOCATOR]
- You can locate a misplaced handset by pressing [LOCATOR].

■ KX-TGC220 series: page 3



1. **Charge contacts**
2. **Speaker**
3. **[+]/[−] (VOL.: Volume up/down)**
4. **[ANSWER ON/OFF] ANSWER ON/OFF indicator**
5. **[►■] (PLAY/STOP) Message indicator**
6. **[I◄◄] (Repeat)**
7. **[►►I] (Skip)**
8. **[ERASE]**
9. **[LOCATOR]**
   - You can locate a misplaced handset by pressing **[LOCATOR]**.

Display icons

Handset display items

Item	Meaning
	Within base unit range
	Out of base unit range
	The line is in use. • When flashing: The call is put on hold. • When flashing rapidly: An incoming call is now being received.
ECO	Eco mode is on. (page 10)
	Speakerphone is on. (page 14)
	Ringer volume is off. (page 14)
Zz	Silent mode is on. (page 24)
PRIV.	Call sharing mode is off. (page 23)
	Alarm is on. (page 24)
1	Handset number
	Battery level
	Blocked call (page 25)
BOOST	Clarity booster is on. (page 15)
`In use`	Answering system is being used by another handset or the base unit.*1
`Line in use`	Someone is using the line.

*1 KX-TGC220 series: page 3

Language settings

Display language

You can select either "`English`" or "`Español`" as the display language. The default setting is "`English`".

1 **[MENU]**#110
2 **[▲▼]**: Select the desired setting. → **[SAVE]**
3 **[OFF]**

Voice guidance language

Available for:
KX-TGC220 series (page 3)

You can select either "`English`" or "`Español`" as the voice guidance language of the answering system. The default setting is "`English`".

1 **[MENU]**#112
2 **[▲▼]**: Select the desired setting.
3 **[SAVE]** → **[OFF]**

Date and time

1 **[MENU]**#101
2 Enter the current month, date, and year by selecting 2 digits for each.
Example: July 15, 2014
07 15 14
3 **[OK]**
4 Enter the current hour and minute (12-hour clock format) by selecting 2 digits for each.
Example: 9:30
09 30
5 ✳: Select "`AM`" or "`PM`".
6 **[SAVE]** → **[OFF]**

Note:

- When English is selected as the display language, 12-hour clock format is used. When Spanish is selected, 24-hour clock format is used.

Recording your greeting message

Available for:
KX-TGC220 series (page 3)

You can record your own greeting message instead of using a pre-recorded greeting message. See page 29 for details.

1 **[MENU]**#302
2 **[▲▼]**: "`Yes`" → **[SELECT]**
3 Record a greeting message. → **[STOP]** → **[OFF]**

Other settings

Dialing mode

If you cannot make calls, change this setting according to your telephone line service. The default setting is "`Tone`".
"`Tone`": For tone dial service.
"`Pulse`": For rotary/pulse dial service.

1 **[MENU]**#120
2 **[▲▼]**: Select the desired setting.
3 **[SAVE]** → **[OFF]**

Making calls

1 Lift the handset and dial the phone number.
- To correct a digit, press **[CLEAR]**.

2 **[ ]**

3 When you finish talking, press **[OFF]** or place the handset on the base unit or charger.

Using the speakerphone

1 Dial the phone number and press **[ ]**.

2 When you finish talking, press **[OFF]**.

Note:
- To switch back to the receiver, press **[ ]**/**[ ]**.

Adjusting the receiver or speaker volume

Press **[▲]** or **[▼]** repeatedly while talking.

Making a call using the redial list

The last 5 phone numbers dialed are stored in the redial list (each 48 digits max.).

1 **[►]** REDIAL

2 **[▲▼]**: Select the desired phone number.

3 **[ ]**

Erasing a number in the redial list

1 **[►]** REDIAL

2 **[▲▼]**: Select the desired phone number. → **[ERASE]**

3 **[▲▼]**: "Yes" → **[SELECT]** → **[OFF]**

Pause (for PBX/long distance service users)

A pause is sometimes required when making calls using a PBX or long distance service. When storing a calling card access number and/or PIN in the phonebook, a pause is also needed (page 19).

Example: If you need to dial the line access number "9" when making outside calls with a PBX:

1 9 → **[▲]** (Pause)

2 Dial the phone number. → **[ ]**

Note:
- A 3.5 second pause is inserted each time you press **[▲]** (Pause) on the handset.

Answering calls

1 Lift the handset and press **[ ]** or **[ ]** when the unit rings.

2 When you finish talking, press **[OFF]** or place the handset on the base unit or charger.

Any key answer: You can answer the call by pressing any dial key.
Auto talk: You can answer calls simply by lifting the handset (page 22).
Temporary handset ringer off: You can turn the ringer off temporarily by pressing **[ ]**.

Adjusting the handset ringer volume

Press **[▲]** or **[▼]** repeatedly to select the desired volume while ringing.

Adjusting the base unit ringer volume

Available for:
KX-TGC220 series (page 3)

Press **[+]** or **[−]** repeatedly to select the desired volume.
- To turn the ringer off, press and hold **[−]** until the unit beeps.

Useful features during a call

Hold

1 Press **[MENU]** during an outside call.

2 **[▲▼]**: "Hold" → **[SELECT]**

3 To release hold, press **[ ]**.

Note:
- After holding for 10 minutes, the call is disconnected.

Mute

1 Press **[MUTE]** during a call.

2 To return to the call, press **[MUTE]**.

Note:
- **[MUTE]** is a soft key visible on the display during a call.

Flash

[FLASH] allows you to use the special features of your host PBX such as transferring an extension call, or accessing optional telephone services.

Note:
- To change the flash time, see page 23.

For call waiting or Call Waiting Caller ID service users

To use call waiting or Call Waiting Caller ID, you must first subscribe with your service provider/telephone company.
This feature allows you to receive calls while you are already talking on the phone. If you receive a call while on the phone, you will hear a call waiting tone.
If you subscribe to both Caller ID and Call Waiting with Caller ID services, the 2nd caller's information is displayed on the handset that is in use after you hear the call waiting tone.

1 Press **[CALL WAIT]** to answer the 2nd call.

2 To switch between calls, press **[CALL WAIT]**.

Note:
- Please contact your service provider/ telephone company for details and availability of this service in your area.

Temporary tone dialing (for rotary/pulse service users)

Press * (TONE) before entering access numbers which require tone dialing.

Handset clarity booster

This feature can improve sound clarity when the handset is used in an area where there may be interference. During an outside call, this feature is turned on automatically when necessary.
- When this feature is turned on, BOOST is displayed.

Call share

You can join an existing outside call.
To join the conversation, press **[ ]** when the other unit is on an outside call.

Note:
- A maximum of 3 parties (including 1 outside party) can join a conversation using 2 extensions. **(3-way conference)**
- To prevent other users from joining your conversations with outside callers, turn call sharing mode off (page 23).

Transferring calls, conference calls

Outside calls can be transferred or a conference call with an outside party can be made between 2 handsets.

1 During an outside call, press **[INTERCOM]**.
When 3 or more handsets are registered:

[▲▼]: Select the desired unit. → [SELECT]

2 Wait for the paged party to answer.
- If the paged party does not answer, press [☎] to return to the outside call.

3 **To complete the transfer:**
Press [OFF].
To establish a conference call:
[MENU] → [▲▼]: "Conf." → [SELECT]
- To leave the conference, press [OFF]. The other 2 parties can continue the conversation.
- To put the outside call on hold: [MENU] → [▲▼]: "Hold" → [SELECT]
  To resume the conference: [MENU] → [▲▼]: "Conf." → [SELECT]
- To cancel the conference: [MENU] → [▲▼]: "Stop conference" → [SELECT]
  You can continue the conversation with the outside caller.

Intercom

Intercom calls can be made between handsets.

Note:
- When paging unit(s), the paged unit(s) beeps for 1 minute.
- If you receive an outside call while talking on the intercom, you hear 2 tones. To answer the call with the handset, press [OFF], then press [☎].

Making an intercom call

1 [INTERCOM].
When 3 or more handsets are registered:
[▲▼]: Select the desired unit. → [SELECT]

2 When you finish talking, press [OFF].

Answering an intercom call

1 Press [INTERCOM] or [☎] to answer the page.

2 When you finish talking, press [OFF].

Phonebook

You can add 50 names (16 characters max.) and phone numbers (24 digits max.) to the phonebook, and assign each phonebook entry to the desired group.

Important:
- All entries can be shared by any registered handset.

Adding phonebook entries

1 📖 or [◄] 📖 → [MENU]

2 [▲▼]: "Add new entry" → [SELECT]

3 Enter the party's name. → [OK]

4 Enter the party's phone number. → [OK]

5 [▲▼]: Select the desired group. → [SELECT] 2 times → [OFF]

Character table for entering names

While entering characters, you can switch between uppercase and lowercase by pressing ✱ (A→a).

Key	Character
1	& ' ( ) ✱ ,
	– . / 1
2	A B C 2
	a b c 2
3	D E F 3
	d e f 3
4	G H I 4
	g h i 4
5	J K L 5
	j k l 5
6	M N O 6
	m n o 6
7	P Q R S 7
	p q r s 7
8	T U V 8
	t u v 8
9	W X Y Z 9
	w x y z 9
0	␣ 0
#	#

- To enter another character that is located on the same dial key, first press [►] to move the cursor to the next space.
- If you do not press any dial key within 5 seconds after entering a character, the character is fixed and the cursor moves to the next space.
- ␣ in the above table represents a single space.

Erasing the character or number

Press [◄] or [►]. → [CLEAR]
- Press and hold [CLEAR] to erase all characters or numbers.

Storing a redial list number to the phonebook

Phone numbers of up to 24 digits can be stored in the phonebook.

1 [►] REDIAL

2 [▲▼]: Select the desired phone number. → [SAVE]

3 To store the name, continue from step 3, "Editing entries", page 18.

Storing caller information to the phonebook

1 [▼] CID

2 [▲▼]: Select the desired entry.
- To edit the number: [MENU] → [▲▼]: "Edit" → [SELECT]
  Press [EDIT] repeatedly until the phone number is shown in the desired format. And then, press [SAVE]. Go to step 5.

3 [MENU]

4 [▲▼]: "Save CID" → [SELECT]
5 [▲▼]: "Phonebook" → [SELECT]
6 Continue from step 3, "Editing entries", page 18.

Groups

Groups can help you find entries in the phonebook quickly and easily. You can change the names of groups assigned for phonebook entries ("Friends", "Family", etc.). By assigning different ringer tones for different groups of callers, you can identify who is calling (ringer ID), if you have subscribed to Caller ID service.

Changing group names/setting ringer ID

The default group name is "Group 1" to "Group 9".

1 📖 or [◄] 📖 → [MENU]
2 [▲▼]: "Group" → [SELECT]
3 [▲▼]: Select the desired group. → [SELECT]
4 **To change group names**
[▲▼]: "Group name" → [SELECT] → Edit the name (10 characters max.). → [SAVE]
To set group ringer tone
[▲▼]: Select the current setting of the group ringer tone. → [SELECT] → [▲▼]: Select the desired ringer tone. → [SAVE]
5 [OFF]

Finding and calling from a phonebook entry

1 📖 or [◄] 📖
2 **To scroll through all entries**
[▲▼]: Select the desired entry.
To search by first character
① Press the dial key ([0] to [9], or [#]) which contains the character you are searching for (page 17).
② [▲▼]: Scroll through the phonebook if necessary.
To search by group
① [GROUP]
② [▲▼]: Select the desired group. → [SELECT]
③ [▲▼]: Scroll through the phonebook if necessary.
3 [📞]

Editing entries

1 Find the desired entry (page 18).
2 [MENU] → [▲▼]: "Edit" → [SELECT]
3 Edit the name if necessary. → [OK]
4 Edit the phone number if necessary. → [OK]
5 [▲▼]: Select the desired group (page 18). → [SELECT] 2 times
6 [OFF]

Erasing entries

Erasing an entry

1 Find the desired entry (page 18).
2 [MENU] → [▲▼]: "Erase" → [SELECT]
3 [▲▼]: "Yes" → [SELECT]
4 [OFF]

Erasing all entries

1 📖 or [◄] 📖 → [MENU]
2 [▲▼]: "Erase all" → [SELECT]
3 [▲▼]: "Yes" → [SELECT]
4 [▲▼]: "Yes" → [SELECT]
5 [OFF]

Chain dial

This feature allows you to dial phone numbers in the phonebook while you are on a call. This feature can be used, for example, to dial a calling card access number or bank account PIN that you have stored in the phonebook, without having to dial manually.

1 During an outside call, press [MENU].
2 [▲▼]: "Phonebook" → [SELECT]
3 [▲▼]: Select the desired entry.
4 Press [CALL] to dial the number.

Note:

- When storing a calling card access number and your PIN in the phonebook as one phonebook entry, press [▲] (Pause) to add pauses after the number and PIN as necessary (page 14).
- If you have rotary/pulse service, you need to press [✱] (TONE) before pressing [MENU] in step 1 to change the dialing mode temporarily to tone. When adding entries to the phonebook, we recommend adding [✱] (TONE) to the beginning of phone numbers you wish to chain dial (page 17).

Speed dial

You can assign 1 phone number to each of the dial keys ([1] to [9]) on the handset.

Adding phone numbers to speed dial keys

■ **By entering phone numbers:**
1 Press and hold the desired speed dial key ([1] to [9]). → [ADD]
2 [▲▼]: "Manual" → [SELECT]
3 Enter the party's name (16 characters max.). → [OK]
4 Enter the party's phone number (24 digits max.). → [OK]
5 [SELECT] → [OFF]

■ **From the shared phonebook:**
1 Press and hold the desired speed dial key ([1] to [9]). → [ADD]
2 [▲▼]: "Phonebook" → [SELECT]
3 [▲▼]: Select the desired entry.
4 [SAVE] → [OFF]

Note:

- If you edit a phonebook entry which is assigned to a speed dial key, the edited entry does not transfer to the speed dial key.

Editing an entry

1 Press and hold the desired speed dial key ([1] to [9]). → [MENU]
2 [▲▼]: "Edit" → [SELECT]
3 Edit the name if necessary. → [OK]
4 Edit the phone number if necessary. → [OK]
5 [SELECT] → [OFF]

Erasing an entry

1 Press and hold the desired speed dial key ([1] to [9]). → [MENU]
2 [▲▼]: "Erase" → [SELECT]
3 [▲▼]: "Yes" → [SELECT]
4 [OFF]

Viewing an entry/Making a call

1 Press and hold the desired speed dial key ([1] to [9]).
2 To make a call, press [📞]

Menu list

To access the features, there are 2 methods.

■ **Scrolling through the display menus**

1 **[MENU]**
2 Press **[▼]** or **[▲]** to select the desired main menu. → **[SELECT]**
3 Press **[▼]** or **[▲]** to select the desired item from the next sub-menus. → **[SELECT]**
4 Press **[▼]** or **[▲]** to select the desired setting. → **[SAVE]**

■ **Using the direct command code**

1 **[MENU]** → Enter the desired code.
Example: Press **[MENU]** **[#]** **[1]** **[0]** **[1]**.
2 Select the desired setting. → **[SAVE]**

Note:

- To exit the operation, press **[OFF]**.
- In the following table, < > indicates the default settings.
- In the following table, ☞ indicates the reference page number.
- Display menu order and sub-menu may vary depending on your model.

Display menu tree and direct command code table

Main menu: 📖 "Phonebook"

Operation	Code	☞
Viewing the phonebook entry.	#280	18

Main menu: 📞 "Caller list"

Operation	Code	☞
Viewing the caller list.	#213	27

Main menu: 📼 "Answering device"*1

Sub-menu 1	Sub-menu 2	Settings	Code	☞
Play new msg. (msg.: message)	–	–	#323	30
Play all msg.	–	–	#324	30
Erase all msg.*2	–	–	#325	31
Greeting	Record greeting*2	–	#302	29
	Check greeting	–	#303	30
	Pre-recorded*2 (Reset to pre-recorded greeting)	–	#304	30

Sub-menu 1	Sub-menu 2	Settings	Code	☞
Settings	Ring count*2	2-7 rings <4 rings> Toll saver	#211	32
	Recording time*2	1 min <3 min> Greeting only*3	#305	33
	Remote code*2	<111>	#306	31
	Screen call	<On> Off	#310	32
Answer on*2	–	–	#327	29
Answer off*2	–	–	#328	29

Main menu: 📨 "V.M. access" (V.M.: Voice mail)

Operation	Code	☞
Listening to voice mail messages.	#330	34

Main menu: 📢 "Intercom"

Operation	Code	☞
Paging the desired unit.	#274	16

Main menu: 🕐 "Set date & time"

Sub-menu 1	Sub-menu 2	Settings	Code	☞
Date and time*2	–	–	#101	13
Alarm	–	Once Daily <Off>	#720	24
Time adjustment*2,*4	–	<Caller ID auto> Manual	#226	–

Main menu: 🔧 "Initial setting"

Sub-menu 1	Sub-menu 2	Settings	Code	☞
Ringer setting	Ringer volume	Off–6 <6>	#160	14
	Ringer tone*5,*6	<Tone 1>	#161	–
	Silent mode – On/Off	On <Off>	#238	24
	Silent mode – Start/End	<11:00 PM/06:00 AM>	#237	24

Sub-menu 1	Sub-menu 2	Settings	Code	☞
Set date & time	Date and time*2	–	#101	13
	Alarm	Once Daily <Off>	#720	24
	Time adjustment*2, *4	<Caller ID auto> Manual	#226	–
Handset name	–	–	#104	26
Call block*2	–	–	#217	25
	First ring*2	<On> Off	#173	25
	Block w/o num*2, *3 (Block calls without phone number)	On <Off>	#240	25
Speed dial	–	–	#261	19
Voice mail	Store VM access#*2 (VM: Voice mail)	–	#331	34
	VM tone detect*2	<On> Off	#332	34
LCD contrast (Display contrast)	–	Level 1–4 <2>	#145	–
Key tone	–	<On> Off	#165	–
Caller ID edit (Caller ID number auto edit)	–	<On> Off	#214	27
Auto talk*7	–	On <Off>	#200	14

Sub-menu 1	Sub-menu 2	Settings	Code	☞
Set tel line	Set dial mode*2	Pulse <Tone>	#120	13
	Set flash time*2, *8	900 ms <700 ms> 600 ms 400 ms 300 ms 250 ms 200 ms 160 ms 110 ms 100 ms 90 ms 80 ms	#121	15
	Set line mode*2, *9	A <B>	#122	–
Call sharing*2	–	<On> Off	#194	15
Registration	Register handset	–	#130	26
	Deregistration*3	–	#131	26
Change language	Display	<English> Español	#110	12
	Voice prompt*1, *2	<English> Español	#112	12

Main menu: ? "Customer support"

Operation	Code	☞
Displaying customer support Web address.	#680	–

*1 KX-TGC220 series: page 3.

*2 If you program these settings using one of the units, you do not need to program the same item using another unit.

*3 This menu is not displayed when scrolling through the display menus. It is only available in direct command code.

*4 This feature allows the unit to automatically adjust the date and time each time caller information including date and time is received.
To turn this feature on, select "Caller ID auto". To turn this feature off, select "Manual". (Caller ID subscribers only)
To use this feature, set the date and time first (page 13).

*5 If you subscribe to a distinctive ring service (such as IDENTA-RING), select a tone (tone 1 to 2). If you select a melody, you cannot distinguish lines by their ringers.

*6 The preset melodies in this product ("Tone 3" - "Tone 5", "Melody 1" - "Melody 10") are used with permission of © 2012 Copyrights Vision Inc.

*7 If you subscribe to a Caller ID service and want to view the caller's information after lifting up the handset to answer a call, turn off this feature.

*8 The flash time depends on your telephone exchange or host PBX. Contact your PBX supplier if necessary. The setting should stay at "700 ms" unless pressing [FLASH] fails to pick up the waiting call.
*9 Generally, the line mode setting should not be changed. This setting automatically maintains receiver volume at the proper level depending on the current telephone line condition. Set the line mode to "A" if telephone line condition is not good.

Alarm

An alarm sounds at the set time for 3 minutes once or daily. Alarm can be set for each handset.

Important:

- Make sure the unit's date and time setting is correct (page 13).

1 [MENU]#720
2 [▲▼]: Select the desired alarm option. → [SELECT]

"Off"	Turns alarm off. Go to step 7.
"Once"	An alarm sounds once at the set time.
"Daily"	An alarm sounds daily at the set time. Go to step 4.

3 Enter the desired month and date. → [OK]
4 Set the desired time.
5 ✳: Select "AM" or "PM". → [OK]
6 [▲▼]: Select the desired alarm tone. → [SELECT]
- We recommend selecting a different ringer tone from the one used for outside calls.

7 [SELECT] → [OFF]

Note:

- To stop the alarm, press [OFF] or place the handset on the base unit or charger.
- When the handset is in use, the alarm will not sound until the handset is in standby mode.

Silent mode

Silent mode allows you to select a period of time during which the handset and/or base unit will not ring for outside calls. This feature is useful for time periods when you do not want to be disturbed, for example, while sleeping. Silent mode can be set for each unit.

Important:

- Make sure the unit's date and time setting is correct (page 13).
- We recommend turning the base unit ringer off (page 14) in addition to turning the silent mode on.
- If you have set the alarm, the alarm sounds even if the silent mode is turned on.

Turning silent mode on/off

1 [MENU]#238
2 [▲▼]: Select the desired setting. → [SAVE]
- If you select "Off", press [OFF] to exit.

3 Enter the desired hour and minute you wish to start this feature.
4 ✳: Select "AM" or "PM". → [OK]
5 Enter the desired hour and minute you wish to end this feature.
6 ✳: Select "AM" or "PM".
7 [SAVE] → [OFF]

Changing the start and end time

1 [MENU]#237
2 Continue from step 3 "Turning silent mode on/off", page 24.

Call block

This feature allows the unit to reject calls when:
– the unit receives a call from a phone number stored in the call block list as unwanted ("Storing unwanted callers", page 25).
– the unit receives a call without phone number ("Blocking incoming calls that have no phone number", page 25).

When a call is received, the unit rings briefly*1 while caller information is being received. If the caller's phone number matches an entry in the call block list, the unit emits no sound to the caller, and disconnects the call. (Caller ID subscribers only)

*1 This is called first ring. If you do not want the first ring to sound, turn this setting to "Off" (page 25).

Important:

- Rejected calls are logged in the caller list.

Storing unwanted callers

You can store up to 30 phone numbers in the call block list.

Important:

- We recommend storing 10 digits (including the area code). If only 7 digits are stored, all numbers that have the same last 7 digits will be blocked.

■ From the caller list:

1 [▼] CID
2 [▲▼]: Select the entry to be blocked.
- To edit the number: [MENU] → [▲▼]: "Edit" → [SELECT]
Press [EDIT] repeatedly until the phone number is shown in the 10-digit format. And then, press [SAVE]. Go to step 5.

3 [MENU]
4 [▲▼]: "Save CID" → [SELECT]
5 [▲▼]: "Call block" → [SELECT]
6 [▲▼]: "Yes" → [SELECT]
7 Edit the phone number if necessary (24 digits max.).
8 [SAVE] → [OFF]

■ By entering phone numbers:

1 [MENU]#2171
2 [MENU] → [▲▼]: "Add" → [SELECT]
3 Enter the phone number (24 digits max.).
- To erase a digit, press [CLEAR].

4 [SAVE] → [OFF]

Blocking incoming calls that have no phone number

You can reject calls when no phone number is provided, such as private callers or out of area calls.

1 [MENU]#2740
2 [▲▼]: Select the desired setting. → [SAVE] → [OFF]

Setting the first ring for the call block list

If you do not want the first ring from a number on the call block list to sound, turn the first ring setting to "Off". The default setting is "On".

1 [MENU]#1733
2 [▲▼]: Select the desired setting. → [SAVE] → [OFF]

Viewing/editing/erasing call block numbers

1 [MENU]#2171
2 [▲▼]: Select the desired entry.
- To exit, press [OFF].

3 **To edit a number:**
[EDIT] → Edit the phone number. → [SAVE] → [OFF]
To erase a number:
[ERASE] → [▲▼]: "Yes" → [SELECT] → [OFF]

Note:

- When editing, press the desired dial key to add, [CLEAR] to erase.
- When viewing, "Block w/o num" is displayed if the blocking incoming calls

without phone number feature is turned on. To turn the feature off: [ERASE] → [▼] → [SAVE] → [OFF]

Other programming

Changing the handset name

Each handset can be given a customized name ("Bob", "Kitchen", etc.). This is useful when you make intercom calls between handsets. You can also select whether or not the handset name is displayed in standby mode. The default setting is "No". If you select "Yes" without entering any handset name, "Handset 1" to "Handset 6" is displayed.

1 [MENU]#104
2 Enter the desired name (max. 10 characters; page 17).
3 [SAVE]
4 [▲▼]: Select the desired setting. → [SELECT] 2 times → [OFF]

Registering a unit

Operating additional units

Additional handsets

Up to 6 handsets can be registered to the base unit.

Important:

- See page 4 for information on the available model.

Registering a handset to the base unit

The supplied handset and base unit are pre-registered. If for some reason the handset is not registered to the base unit, re-register the handset.

1 **Handset:**
[MENU]#130
2 **Base unit:**
Press and hold [LOCATOR] for about 5 seconds.
- If all registered handsets start ringing, press [LOCATOR] again to stop, then repeat this step.

3 **Handset:**
Press [OK], then wait until a long beep sounds.

Deregistering a handset

A handset can cancel its own registration to the base unit, or other handsets registered to the same base unit. This allows the handset to end its wireless connection with the system.

1 [MENU]#131
- All handsets registered to the base unit are displayed.

2 [▲▼]: Select the handset you want to cancel. → [SELECT]
3 [▲▼]: "Yes" → [SELECT] → [OFF]

Using Caller ID service

Important:

- This unit is Caller ID compatible. To use Caller ID features, you must subscribe to a Caller ID service. Contact your service provider/telephone company for details.

Caller ID features

When an outside call is being received, the caller information is displayed.
Caller information for the last 50 callers is logged in the caller list from the most recent call to the oldest.

- If the unit cannot receive caller information, the following is displayed:
  - "Out of area": The caller dials from an area which does not provide a Caller ID service.
  - "Private caller": The caller requests not to send caller information.
  - "Long distance": The caller makes a long distance call.
- If the unit is connected to a PBX system, caller information may not be properly received. Contact your PBX supplier.

Missed calls

If a call is not answered, the unit treats it as a missed call. The display shows "Missed call".

Note:

- Even when there are unviewed missed calls, "Missed call" disappears from the standby display if the following operation is performed by one of the units:
  - A handset is replaced on the base unit or charger.
  - Pressing [OFF] on a handset.

Phonebook name display

When caller information is received and it matches a phone number stored in the phonebook, the stored name in the phonebook is displayed and logged in the caller list.

Caller list

Important:

- Make sure the unit's date and time setting is correct (page 13).

Viewing the caller list and calling back

1 [▼] CID
2 Press [▼] to search from the most recent call, or [▲] to search from the oldest call.
3 To call back, press [📞].
To exit, press [OFF].

Note:

- If the entry has already been viewed or answered, "✓" is displayed.

Editing a caller's phone number

You can edit a phone number in the caller list by removing its area code and/or the long distance code "1".

1 [▼] CID
2 [▲▼]: Select the desired entry.
3 [MENU] → [▲▼]: "Edit" → [SELECT]
4 Press [EDIT] repeatedly until the phone number is shown in the desired format.
5 [📞]

Caller ID number auto edit feature

Once you call back an edited number, the unit which was used to call back remembers the area code and format of the edited number. The next time someone calls from the same area code, caller information is customized by the unit as follows:

- When the call is being received, the Caller ID number is displayed in the same format as the edited number.
- After the call has ended, the caller's phone number is displayed in the same format as the edited number, when reviewed from the caller list.

For example, you can use this feature to set the unit to ignore the area code of callers in your area, so that you can call these local numbers using caller information without dialing the area code.
To activate this feature, you must edit an entry in the caller list, then call that number. After that, phone numbers from that caller's area code are edited automatically.
This feature can be set for each unit (page 22). The default setting is "On".

Note:

- Phone numbers from the 4 most recently edited area codes are automatically edited.

Erasing selected caller information

1 [▼] CID
2 [▲▼]: Select the desired entry.
3 [ERASE] → [▲▼]: "Yes" → [SELECT] → [OFF]

Erasing all caller information

1 [▼] CID
2 [ERASE] → [▲▼]: "Yes" → [SELECT] → [OFF]

Answering system

Available for:
KX-TGC220 series (page 3)

The answering system can answer and record calls for you when you are unavailable to answer the phone.
You can also set the unit to play a greeting message but not to record caller messages by selecting "Greeting only" as the recording time setting (page 33).

Important:

- Make sure the unit's date and time setting is correct (page 13).

Memory capacity (including your greeting message)

The total recording capacity is about 17 minutes. A maximum of 64 messages can be recorded.

Note:

- When message memory becomes full:
  - "Messages full" is shown on the handset display.
  - The ANSWER ON/OFF indicator on the base unit flashes rapidly if the answering system is turned on.
  - If you use the pre-recorded greeting message, the unit automatically switches to another pre-recorded greeting message asking callers to call again later.
  - If you recorded your own greeting message, the same message is still announced to callers even though their messages are not recorded.

Turning the answering system on/off

Base unit

Press [ANSWER ON/OFF] to turn on/off the answering system.

Handset

1 To turn on:
[MENU]#321
To turn off:
[MENU]#328
2 [OFF]

Note for base unit and handset:

- When the answering system is turned on, the ANSWER ON/OFF indicator on the base unit lights up.

Greeting message

When the unit answers a call, a greeting message is played to callers.
You can use either:
– your own greeting message
– a pre-recorded greeting message

Recording your greeting message

1 [MENU]#302
2 [▲▼]: "Yes" → [SELECT]
3 After a beep sounds, hold the handset about 20 cm (8 inches) away and speak clearly into the microphone (2 minutes max.).
4 Press [STOP] to stop recording. → [OFF]

Using a pre-recorded greeting message

The unit provides 2 pre-recorded greeting messages:
– If you erase or do not record your own greeting message, the unit plays a pre-recorded greeting asking callers to leave a message.
– If the message recording time (page 33) is set to "Greeting only", callers' messages are not recorded and the unit plays a different pre-recorded greeting message asking callers to call again.

Resetting to a pre-recorded greeting message

If you want to use a pre-recorded greeting message once you record your own greeting message, you need to erase your own greeting message.

1 [MENU]#301
2 [YES] → [OFF]

Playing back the greeting message

1 [MENU]#303
2 To exit, press [OFF].

Listening to messages

Using the base unit

When new messages have been recorded:
– [▶■] on the base unit flashes.
– "New message" is displayed.
Press [▶■] (PLAY).
- If new messages have been recorded, the base unit plays back new messages.
- If there are no new messages, the base unit plays back all messages.

Operating the answering system during playback

Key	Operation
[+] or [−]	Adjust the speaker volume
[I◀◀]	Repeat message*1
[▶▶I]	Skip message
[▶■] (STOP)	Stop playback
[ERASE]	Erase currently playing message

*1 If pressed within the first 5 seconds of a message, the previous message is played.

Erasing all messages

Press [ERASE] 2 times while the unit is not in use.

Using the handset

When new messages have been recorded, "New message" is displayed.

1 **To listen to new messages:**
[MENU]#323
To listen to all messages:
[MENU]#324
2 When finished, press [OFF].

Note:

- You can also use the [PLAY] soft key, if displayed, to play new messages.
- To switch to the receiver, press [ ].

Operating the answering system

[MENU] → [▲▼]: "Answering device" → [SELECT]

Key	Operation
[▲] or [▼]	Adjust the receiver/speaker volume (during playback)
1 or [◄]	Repeat message (during playback)*1
2 or [►]	Skip message (during playback)
3	Enter the "Settings" menu
4	Play new messages
5	Play all messages
6	Play greeting message
76	Record greeting message
8	Turn answering system on
[PAUSE]	Pause message*2
9 or [STOP]	Stop recording Stop playback
0	Turn answering system off
*4*3	Erase currently playing message
*5	Erase all messages

Key	Operation
*6	Reset to a pre-recorded greeting message

*1 If pressed within the first 5 seconds of a message, the previous message is played.
*2 To resume playback:
[▲▼]: "Playback" → [SELECT]
*3 You can also erase as follows:
[PAUSE] → [▲▼]: "Erase" → [SELECT] → [▲▼]: "Yes" → [SELECT]

Calling back (Caller ID subscribers only)

1 Press [PAUSE] during playback.
2 [▲▼]: "Call back" → [SELECT]

■ **Editing the number before calling back**

1 Press [PAUSE] during playback.
2 [▲▼]: "Edit & Call" → [SELECT]
3 Press [EDIT] repeatedly until the phone number is shown in the desired format (page 27). → [ ]

Erasing all messages

1 [MENU]#325
2 [▲▼]: "Yes" → [SELECT] → [OFF]

Remote operation

Using a touch-tone phone, you can call your phone number from outside and access the unit to listen to messages or change answering system settings. The unit's voice guidance prompts you to press certain dial keys to perform different operations.

Remote access code

A 3-digit remote access code must be entered when operating the answering system remotely. This code prevents unauthorized parties from listening to your messages remotely. The default setting is "111".

Important:

- To prevent unauthorized access to this product, we recommend that you regularly change the remote code.

1 [MENU]#306
2 Enter the desired 3-digit remote access code.
3 [SAVE] → [OFF]

Deactivating remote operation

Press * in step 2 on "Remote access code", page 31.

- The entered remote access code is deleted.

Using the answering system remotely

1 Dial your phone number from a touch-tone phone.
2 After the greeting message starts, enter your remote access code.
3 Follow the voice guidance prompts as necessary or control the unit using remote commands (page 32).
4 When finished, hang up.

Voice guidance

■ **When the English voice guidance is selected**
During remote operation, the unit's voice guidance starts and prompts you to press 1 to perform a specific operation, or press 2 to listen to more available operations.

■ **When the Spanish voice guidance is selected**
To start the voice guidance, press 9. The voice guidance announces the available remote commands (page 32).

Note:

- If you do not press any dial keys within 10 seconds after a voice guidance prompt, the unit disconnects your call.

Remote commands

You can press dial keys to access certain answering system functions without waiting for the voice guidance to prompt you.

Key	Operation
1	Repeat message (during playback)*1
2	Skip message (during playback)
4	Play new messages
5	Play all messages
9	Stop playback*2 Start voice guidance*3
0	Turn answering system off
✱ 4	Erase currently playing message
✱ 5	Erase all messages
✱ #	End remote operation (or hang up)

*1 If pressed within the first 5 seconds of a message, the previous message is played.
*2 For English voice guidance only
*3 For Spanish voice guidance only

Turning on the answering system remotely

1 Dial your phone number from a touch-tone phone.
2 Let the phone ring 15 times.
- A long beep is heard.

3 Enter your remote access code within 10 seconds after the long beep.
- The greeting message is played back.
- You can either hang up, or enter your remote access code again and begin remote operation (page 31).

Answering system settings

Call screening

While a caller is leaving a message, you can listen to the call through the handset's speaker. To adjust the speaker volume, press [▲] or [▼] repeatedly.
You can answer the call by pressing [ ].
Call screening can be set for each handset.
The default setting is "On".

1 [MENU]#310
2 [↕]: Select the desired setting. → [SAVE]
3 [OFF]

Number of rings before the unit answers a call

You can change the number of times the phone rings "Ring count" before the unit answers calls. You can select 2 to 7 rings, or "Toll saver".
The default setting is "4 rings".
"Toll saver": The unit's answering system answers at the end of the 2nd ring when new messages have been recorded, or at the end of the 5th ring when there are no new messages. If you call your phone from outside to listen to new messages (page 31), you know that there are no new messages when the phone rings for the 3rd time. You can then hang up without being charged for the call.

1 [MENU]#211
2 [↕]: Select the desired setting. → [SAVE] → [OFF]

For voice mail service subscribers

If you subscribe to a flat-rate service package that includes Caller ID, call waiting, voice mail, and unlimited local/regional/long distance calls, please note the following:
- To use the voice mail service provided by your service provider/telephone company rather than the unit's answering system, turn off the answering system (page 29).

- To use this unit's answering system rather than the voice mail service provided by your service provider/telephone company, please contact your service provider/ telephone company to deactivate your voice mail service.
  If your service provider/telephone company cannot do this:
  - Set this unit's "Ring count" setting so that this unit's answering system answers calls before the voice mail service of your service provider/ telephone company does. It is necessary to check the number of rings required to activate the voice mail service provided by your service provider/telephone company before changing this setting.
  - Change the number of rings of the voice mail service so that the answering system can answer the call first. To do so, contact your service provider/ telephone company.

Caller's recording time

You can change the maximum message recording time allowed for each caller. The default setting is "3 min".

1 [MENU]#305
2 [↕]: Select the desired setting. → [SAVE] → [OFF]

Selecting "Greeting only"

You can select "Greeting only" which sets the unit to announce a greeting message to callers but not record messages.
Select "Greeting only" in step 2 on "Caller's recording time", page 33.

Note:
- When you select "Greeting only":
  - If you do not record your own message, the unit will play the pre-recorded greeting-only message asking callers to call again later.
  - If you use your own message, record the greeting-only message asking callers to call again later (page 29).

Voice mail service

Voice mail is an automatic answering service offered by your service provider/telephone company. After you subscribe to this service, your service provider/telephone company's voice mail system answers calls for you when you are unavailable to answer the phone or when your line is busy. Messages are recorded by your service provider/telephone company, not your telephone. Please contact your service provider/telephone company for details of this service.

Important:

- To use the voice mail service provided by your service provider/telephone company rather than the unit's answering system, turn off the answering system (page 29). For details, see page 32.

Storing the voice mail (VM) access number

In order to listen to your voice mail messages, you must dial your service provider/telephone company's voice mail access number. Once you have stored your voice mail access number, you can dial it automatically (page 34).

1 **[MENU]**#331

2 Enter your access number (24 digits max.). → **[SAVE]** → **[OFF]**

Note:

- When storing your voice mail access number and your mailbox password, press **[▲]** (Pause) to add pauses (page 14) between the access number and the password as necessary. Contact your service provider/telephone company for the required pause time.

Example:

1-222-333-4444 PPPP 8888

VM access number — Pauses — Password

To erase the voice mail access number

1 **[MENU]**#331

2 Press and hold **[CLEAR]** until all digits are erased. → **[SAVE]** → **[OFF]**

Voice mail (VM) tone detection

Your service provider/telephone company sends special signals (sometimes called "voice mail tones" or "stutter tones") to the unit to let you know you have new voice mail messages. If you hear a series of dial tones followed by a continuous dial tone after you press **[ ]**, you have new voice mail messages. Soon after you hang up a call or after the phone stops ringing, your unit checks the phone line to see if new voice mail messages have been recorded.

Turn this feature off when:

– You do not subscribe to voice mail service.
– Your service provider/telephone company does not send voice mail tones.
– Your phone is connected to a PBX.

If you are not sure which setting is required, contact your service provider/telephone company.

Turning VM tone detection on/off

The default setting is "On".

1 **[MENU]**#332

2 **[▲▼]**: Select the desired setting. → **[SAVE]** → **[OFF]**

Listening to voice mail messages

The unit lets you know that you have new voice mail messages in the following way:

– "New Voice Mail" is displayed if message indication service is available.

1 **[MENU]**#330
- The speakerphone turns on.

2 Follow the pre-recorded instructions.

3 When finished, press **[OFF]**.

Note:

- You can also use the **[VM]** soft key, if displayed, to play new voice mail messages.
- If the handset still indicate there are new messages even after you have listened to all new messages, turn it off by pressing and holding # until the handset beeps.

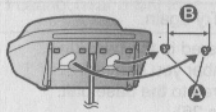
Wall mounting (Charger only)

Note:

- Make sure that the wall and the fixing method are strong enough to support the weight of the unit.

Drive the screws (Ⓐ) (not supplied) into the wall.

Ⓑ 27.2 mm (1 1/16 inches)



Error messages

Display message	Cause/solution
`Base no power` or `No link. Re-connect base AC adaptor.`	• The handset has lost communication with the base unit. Move closer to the base unit and try again. • Unplug the base unit's AC adaptor to reset the unit. Reconnect the adaptor and try again. • The handset's registration may have been canceled. Re-register the handset (page 26).
`Busy`	• The called unit is in use. • Other units are in use and the system is busy. Try again later. • The handset you are using is too far from the base unit. Move closer and try again.
`Call phone company for your access #`	• You have not stored the voice mail access number. Store the number (page 34).
`Check tel line`	• The supplied telephone line cord has not been connected yet or not connected properly. Check the connections (page 9).
`Error!!`	• Recording was too short. Try again.
`Invalid`	• There is no handset registered to the base unit matching the handset number you entered. • The handset is not registered to the base unit. Register the handset (page 26).
`Requires subscription to Caller ID.`	• You must subscribe to a Caller ID service. Once you receive caller information after subscribing to a Caller ID service, this message will not be displayed.
`Use rechargeable battery.`	• A wrong type of battery such as Alkaline or Manganese was inserted. Use only the rechargeable Ni-MH batteries noted on page 4, 6.

Troubleshooting

If you still have difficulties after following the instructions in this section, disconnect the base unit's AC adaptor, then reconnect the base unit's AC adaptor. Remove the batteries from the handset, and then insert the batteries into the handset again.

General use

Problem	Cause/solution
The handset does not turn on even after installing charged batteries.	• Place the handset on the base unit or charger to turn on the handset.
The unit does not work.	• Make sure the batteries are installed correctly (page 9). • Fully charge the batteries (page 10). • Check the connections (page 9). • Unplug the base unit's AC adaptor to reset the unit. Reconnect the adaptor and try again. • The handset has not been registered to the base unit. Register the handset (page 26).
I cannot hear a dial tone.	• The base unit's AC adaptor or telephone line cord is not connected. Check the connections. • Disconnect the base unit from the telephone line and connect the line to a known working telephone. If the working telephone operates properly, contact our service personnel to have the unit repaired. If the working telephone does not operate properly, contact your service provider/telephone company.

Menu list

Problem	Cause/solution
The display is in a language I cannot read.	• Change the display language (page 12).
I cannot register a handset to a base unit.	• The maximum number of handsets (6) is already registered to the base unit. Cancel unused handset registrations from the base unit (page 26).

Battery recharge

Problem	Cause/solution
The handset beeps and/or 🔋 flashes.	• Battery charge is low. Fully charge the batteries (page 10).

Problem	Cause/solution
I fully charged the batteries, but – 🔋 still flashes, – 🔋 is displayed, or – the operating time seems to be shorter.	• Clean the battery ends (⊕, ⊖) and the charge contacts with a dry cloth and charge again. • It is time to replace the batteries (page 9).

Making/answering calls, intercom

Problem	Cause/solution
📡 is displayed.	• The handset is too far from the base unit. Move closer. • The base unit's AC adaptor is not properly connected. Reconnect AC adaptor to the base unit. • The handset is not registered to the base unit. Register it (page 26).
Noise is heard, sound cuts in and out.	• You are using the handset or base unit in an area with high electrical interference. Re-position the base unit and use the handset away from sources of interference. • Move closer to the base unit. • If you use a DSL/ADSL service, we recommend connecting a DSL/ADSL filter between the base unit and the telephone line jack. Contact your DSL/ADSL provider for details.
The handset does not ring.	• The ringer volume is turned off. Adjust the ringer volume (page 14, 21). • Silent mode is turned on. Turn it off (page 24).
The base unit does not ring.	• The ringer volume is turned off. Adjust the ringer volume (page 14).
I cannot make a call.	• The dialing mode may be set incorrectly. Change the setting (page 13).
I cannot make long distance calls.	• Make sure that you have long distance service.

Caller ID

Problem	Cause/solution
Caller information is not displayed.	• You must subscribe to Caller ID service. Contact your service provider/telephone company for details. • If your unit is connected to any additional telephone equipment such as a Caller ID box or cordless telephone line jack, plug the unit directly into the wall jack. • If you use a DSL/ADSL service, we recommend connecting a DSL/ADSL filter between the base unit and the telephone line jack. Contact your DSL/ADSL provider for details. • The name display service may not be available in some areas. Contact your service provider/telephone company for details. • Other telephone equipment may be interfering with this unit. Disconnect the other equipment and try again.
Caller information is displayed late.	• Depending on your service provider/telephone company, the unit may display the caller's information at the 2nd ring or later. • Move closer to the base unit.
The caller list/incoming phone numbers are not edited automatically.	• The Caller ID number auto edit feature is turned off. Turn it on and try again (page 22). • You need to call back the edited number to activate Caller ID number auto edit.
I cannot dial the phone number edited in the caller list.	• The phone number you dialed might have been edited incorrectly (for example, the long distance "1" or the area code is missing). Edit the phone number with another pattern (page 27).
Time on the unit has shifted.	• Incorrect time information from incoming Caller ID changes the time. Set the time adjustment to "Manual" (off) (page 22).
The 2nd caller's information is not displayed during an outside call.	• In order to use Caller ID, call waiting, or Call Waiting Caller ID (CWID), you must first contact your service provider/telephone company and subscribe to the desired service. After subscribing, you may need to contact your service provider/telephone company again to activate this specific service, even if you already subscribed to both Caller ID and Call Waiting with Caller ID services (CWID).

Answering system

Problem	Cause/solution
The unit does not record new messages.	• The answering system is turned off. Turn it on (page 29). • The message memory is full. Erase unnecessary messages (page 30). • The recording time is set to "Greeting only". Change the setting (page 33). • Your service provider/telephone company's voice mail service may be answering your calls before the unit's answering system can answer your calls. Change the unit's number of rings setting (page 32) to a lower value, or contact your service provider/telephone company.
I cannot operate the answering system remotely.	• The remote access code is not set. Set the remote access code (page 31). • You are entering the wrong remote access code. If you have forgotten your remote access code, enter the remote access code setting to check your current code (page 31). • The answering system is turned off. Turn it on (page 32).
The unit does not emit the specified number of rings.	• If the first ring is turned off, the number of rings decreases by 1 from the specified number of rings.

Voice mail

Problem	Cause/solution
"New Voice Mail" is shown on the handset display. How do I remove this message from the display?	• This notification is displayed when your service provider/ telephone company's voice mail service (not the unit's answering system) has recorded a message for you. Typically you can remove this notification from the display by listening to the message. To listen to the message, dial the voice mail number provided by your service provider/ telephone company (for most cases, this will be your own phone number), and follow the voice instructions. Depending on your service provider/telephone company, you may need to remove all messages from your voice mailbox to remove the notification. You can also remove this notification by pressing and holding # until the unit beeps.

Liquid damage

Problem	Cause/solution
Liquid or other form of moisture has entered the handset/base unit.	• Disconnect the AC adaptor and telephone line cord from the base unit. Remove the batteries from the handset and leave to dry for at least 3 days. After the handset/base unit are completely dry, reconnect the AC adaptor and telephone line cord. Insert the batteries and charge fully before use. If the unit does not work properly, contact an authorized service center.

Caution:

- To avoid permanent damage, do not use a microwave oven to speed up the drying process.

FCC and other information

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US:ACJ----------.
If requested, this number must be provided to the telephone company.

- Registration No.....(found on the bottom of the unit)
- Ringer Equivalence No. (REN).....0.1B

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with the product. It is designed to be connected to a compatible modular jack that is also compliant.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for the product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3).

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this equipment, for repair or warranty information, please contact a Factory Service Center or other Authorized Servicer. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

This equipment is hearing aid compatible as defined by the FCC in 47 CFR Section 68.316.

When you hold the phone to your ear, noise might be heard in your Hearing Aid. Some Hearing Aids are not adequately shielded from external RF (radio frequency) energy. If noise occurs, use an optional headset accessory or the speakerphone option (if applicable) when using this phone. Consult with your audiologist or Hearing Aid manufacturer about the availability of Hearing Aids which provide adequate shielding to RF energy commonly emitted by digital devices.

WHEN PROGRAMMING EMERGENCY NUMBERS AND(OR) MAKING TEST CALLS TO EMERGENCY NUMBERS:

1) Remain on the line and briefly explain to the dispatcher the reason for the call.
2) Perform such activities in the off-peak hours, such as early morning or late evenings.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Privacy of communications may not be ensured when using this phone.

CAUTION:
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

NOTE:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Some cordless telephones operate at frequencies that may cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the base of the cordless telephone should not be placed near or on top of a TV or VCR. If interference is experienced, move the cordless telephone further away from the TV or VCR. This will often reduce or eliminate interference.

FCC RF Exposure Warning:

- This product complies with FCC radiation exposure limits set forth for an uncontrolled environment.
- To comply with FCC RF exposure requirements, the base unit must be installed and operated 20 cm (8 inches) or more between the product and all person's body.
- This product may not be collocated or operated in conjunction with any other antenna or transmitter.
- For body-worn operation, the handset must be used only with a non-metallic accessory. Use of other accessories may not ensure compliance with FCC RF exposure requirements.

Notice:

- FCC ID can be found inside the battery compartment or on the bottom of the units.

Compliance with TIA-1083 standard:
Telephone handsets identified with this logo have reduced noise and interference when used with T-Coil equipped hearing aids and cochlear implants.

Guía Rápida Española

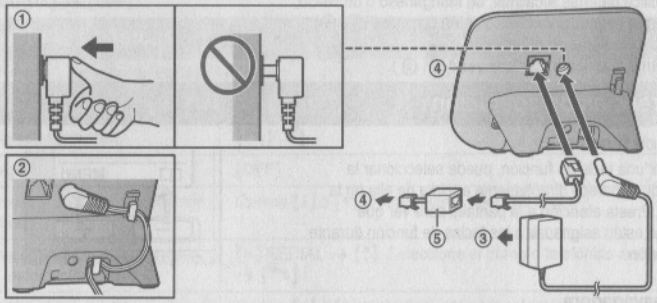
Conexiones

Unidad base

① Conecte el adaptador de corriente alterna a la unidad presionándolo firmemente.
② Enganche el cable para fijarlo.
③ Conecte el adaptador de corriente alterna a la toma de corriente.
④ Conecte el cable de la línea telefónica a la unidad, y después a la toma telefónica de una sola línea (RJ11C) hasta que escuche un clic.
⑤ Se requiere un filtro DSL/ADSL (no incluido) si tiene este tipo de servicio.

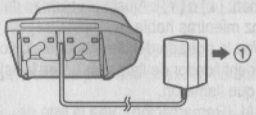
Nota:

- Use solo el adaptador de corriente alterna Panasonic PNLV226 que se suministra.



Cargador

① Conecte el adaptador de corriente alterna a la toma de corriente.



Operaciones básicas

Sistema contestador de llamadas (auricular: serie KX-TGC220)	
Para escuchar mensajes	**Para escuchar mensajes nuevos:** **[REPRO.]** o **[MENU]** #3232 **Para escuchar todos los mensajes:** **[MENU]** #3234

Preguntas frecuentes

Pregunta	Causa y solución
¿Por qué aparece ⧩?	• El auricular está demasiado lejos de la unidad base. Acérquelo. • El adaptador para corriente de la unidad base no está conectado correctamente. Conecte de nuevo el adaptador para corriente a la unidad base. • El auricular no está registrado en la unidad base. Regístrelo. 1 **Auricular: [MENU]** #130 2 **Unidad base:** Oprima y mantenga oprimido **[LOCATOR]** durante aproximadamente 5 segundos. 3 **Auricular:** Oprima **[OK]**, y después espere hasta que suene un pitido largo.
¿Cómo se incrementa el nivel de volumen del auricular?	• Oprima la tecla de navegación **[▲]** repetidamente mientras habla.
¿Por qué hay ruido o se corta la conversación?	• Trate de reubicar la unidad base de forma que se minimice la distancia al auricular. • Si ocurre el mismo problema aunque el auricular se encuentre enseguida de la unidad base, visite www.panasonic.com/support
¿Es posible añadir otro auricular accesorio a mi unidad base?	• Sí, puede añadir hasta 6 auriculares (incluyendo los que se venden con su unidad base) a una sola unidad base. • Para adquirir auriculares accesorios adicionales (KX-TGDA20), visite: www.pstc.panasonic.com Los usuarios TTY (usuarios con impedimentos auditivos o del habla) pueden llamar al 1-866-605-1277.
¿Es posible mantener cargando las baterías todo el tiempo?	• Puede dejar el auricular en la unidad base o el cargador en cualquier momento. Esto no daña las baterías.
¿Cómo se contestan las llamadas en espera (2ª llamada)?	• Oprima **[CALL WAIT]** cuando escuche el tono de llamada en espera.

Customer services

Customer Services Directory (United States and Puerto Rico)

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Service Center; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:

www.panasonic.com/support

or, contact us via the web at:

www.panasonic.com/contactinfo

For hearing or speech impaired TTY users, TTY: 1-877-833-8855

Accessory Purchases (United States and Puerto Rico)

Purchase Parts, Accessories and Owner's Manual online for all Panasonic Products by visiting our Web Site at:

www.pstc.panasonic.com

or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at:
1-800-237-9080 (Fax Only)
(Monday - Friday 9 am to 9 pm, EST.)
Panasonic National Parts Center
20421 84th Avenue S., Kent, WA 98032
(We accept Visa, MasterCard, Discover Card, American Express.)

For hearing or speech impaired TTY users, TTY: 1-866-605-1277

Warranty (For United States and Puerto Rico)

Panasonic Telephone Products Limited Warranty

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Corporation of North America (referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("Limited Warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished equivalent value product, or (c) refund your purchase price. The decision to repair, replace or refund will be made by the warrantor.

Parts	Labor
One (1) Year	One (1) Year

During the "Labor" Limited Warranty period there will be no charge for labor. During the "Parts" Limited Warranty period, there will be no charge for parts. You must mail-in your product prepaid during the Limited Warranty period. This Limited Warranty excludes both parts and labor for batteries, antennas, and cosmetic parts (cabinet). This Limited Warranty only applies to products purchased and serviced in the United States or Puerto Rico. This Limited Warranty is extended only to the original purchaser and only covers products purchased as new.

Mail-In Service--Online

Online Repair Request
To submit a new repair request and for quick repair status visit our Web Site at www.panasonic.com/repair

When shipping the unit carefully pack in a padded shipping carton, include all accessories, and send it prepaid. Include a letter detailing the complaint, a return address and provide a day time phone number where you can be reached. P.O. Boxes are not acceptable. Keep the tracking number for your records. A copy of valid registered receipt is required under the 1 year parts and labor Limited Warranty.

For Limited Warranty service for headsets if a headset is included with this product please follow instructions above.

IF REPAIR IS NEEDED DURING THE LIMITED WARRANTY PERIOD THE PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/PROOF OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE. CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT RECEIVED WITHOUT SUCH PROOF OF PURCHASE.

Limited Warranty Limits And Exclusions

This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, bug infestation, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Factory Service Center or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY. (As examples, this excludes damages for lost time, lost calls or messages, cost of having someone remove or re-install an installed unit if applicable, travel to and from the servicer. The items listed are not exclusive, but are for illustration only.) **ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This Limited Warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the Limited Warranty period, you may contact your dealer or Service Center. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.

When you ship the product

- Carefully pack your unit, preferably in the original carton.
- Attach a letter, detailing the symptom.
- Send the unit to Panasonic Exchange Center, prepaid and adequately insured.
- Do not send your unit to Panasonic Corporation of North America listed on the back cover or to executive or regional sales offices. These locations do not repair consumer products.

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